



TA 2022 SPCo South Plot

“Kick of Meeting with Coperion & SMH

Extruder Overhauling for unit 42,43 PE and unit 44 PP during SPCO SP TA 2022

April 12, 2022

Always address abnormal conditions and clarify and understand procedures before proceeding

8



Meeting Agenda:

- Welcome onboard
- Introduction
- EHS requirements - EHS representative
- Compliance Training Requirements
- Fatigue Policy
- S-Chem GI's & Policies
- S-Chem Best Practices
- Logistic Requirements – MSS Logistics
- *Requirements from Contractor (In Planning Phase)*
 - ✓ HSE Policy
 - ✓ Organization Chart with Key persons present
 - ✓ Equipment loading chart with Break up
 - ✓ Manpower loading chart With Break up
 - ✓ Siting Plan preparation for the equipment staging
 - ✓ Mobilization Plan
 - ✓ Schedule Discussion & Integration with other's activities
- Pre-Turnaround Preparation activities: -
 - Work Package review
 - Walkdown, Onsite preparation and approval.
 - Method Statement
 - QA/QC document review and approval with Technical team (Process and Reliability)
 - ✓ JSA Meetings – Relevant supervisors who will execute
 - ✓ Communication Plan
 - ✓ Equipment Inspections before Mobilization.
- S-Chem Facilities
- Execution and Post Turnaround Activities.

- Maintenance Window TA Duration – TA activity will be carried out in October 2022. TA window consists of 50 Days from Feed out to Feed in. Maximum Maintenance window will be 30 Days for some systems. However Different systems have different handing over & start up dates and contractor to complete its maintenance work with respect to respective system.
- Maintenance & inspection works will be required to be completed within the time window allocated for the respective system, the equipment belongs to.
- Level 3- schedule is under preparation to make sure that all interfaces & parallel jobs are incorporated. This schedule will be shared with OEM & Contractor for final review and updated accordingly.
- Critical parallel jobs are
 - Chemical cleaning – By Other Contractor
 - Steam circuit piping – By Other Contractor
 - Main Motors overhaul & swapping- By Other Contractor



Coperion & SMH is awarded following Scope at SPCO south for TA-2022

1. Unit 42/ZSK380 /HDPE

1. **Overhaul Screws, Barrels & Process Section assemblies;** Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screw shafts, Screw elements, screen pack changer, Die Head housing, Die plate, pelletizer system (assembly & Gear Box), DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.
 - All Screw elements will be replaced, Available
 - Refurbished Barrels available, if required will be replaced
 - Spare screw shaft available for 42/43, replace if required
2. **Overhaul Suprex gearbox:** Replacement of wearable parts at a minimum; Replace Oil. Change all bearings, backstop, rotary union, Friction unit and sealing, check all installed parts as gears and shaft. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging, or electrical testing is not part of this scope).*
3. **Overhaul Pellet Dewatering Dryers 42X84/85;** Replacement of Bearings, Seals, inlet filter sprockets & Dry Screens

1. Unit 43/ZSK380 /LDPE

1. **Overhaul Screws, Barrels & Process Section assemblies;** Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screw shafts, Screw elements, screen pack changer, Die Head housing, Die plate, pelletizer system (assembly & Gear Box), DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.
 - All Screw elements available, if required will be replaced
 - All Barrels will be replaced, available
 - Spare screw shaft available for 42/43, replace if required
2. **Overhaul Suprex gearbox:** Replacement of wearable parts at a minimum; Replace Oil. Change all bearings, backstop, rotary union, Friction unit and sealing, check all installed parts as gears and shaft, Repair of Gear Box Bolts. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging or electrical testing is not part of this scope).*
3. **Overhaul Pellet Dewatering Dryers 43X84/85;** Replacement of Bearings, Seals, inlet filter sprockets & Dry Screens

3. Unit 44 / ZSK350 / PP

3.1. Overhaul Screws, Barrels & Process Section assemblies; Overhauling of Screw & Barrels that includes all dismantling & Re-assembling of process parts, existing barrels & screw shafts, Screw elements, screen pack changer, Die Head housing, Die plate, pelletizer system assembly, DAV valves, Hydraulic system & other accessories. Replacement of the damaged parts.

- All Screw elements will be replaced, available
- Barrels 2 to 9 will be replaced, available
- Screw shaft will be replaced, available

3.2. Overhaul Flender gearbox; Replacement of wearable parts at a minimum; Replace Oil. Change all bearings, backstop, rotary union, Friction unit and sealing, check all installed parts as gears and shaft. This job also involves Uncoupling & Recoupling of Motor with Gear Box, solo run testing & alignment of Main Drive Motor. *(Motor Dismantling, Overhauling, Installation, Rigging or electrical testing is not part of this scope).*

3.3. Overhaul Pellet Dewatering Dryer 44X84; Replacement of Bearings, Seals, inlet filter sprockets & Dry Screens



Planning Timeline With Contractor



